Homework 1 The Internet and WANs
Unit 3 Networks, connections and protocols

PG ONLINE

Name: ..... **Class:**..... **Mark:**.....

1. Complete the table below by ticking one column in each row to show whether the following statements are true or false. [4]

	True	False
The Internet is part of the World Wide Web		
Each household in the UK has a unique IP address		
The IP address of a laptop will change as you travel to different places		
Every networked device in the world has a unique MAC (Media Access Control) address		
To use the Internet, you must be connected to a router, either by a network cable or a wireless connection		

2. (a) Explain with the aid of a diagram the concept of a **packet switching network**. [4]

(b) Name **two** items of information that each data packet will contain other than the original data that was to be sent. [2]

(c) Explain how MAC addresses are used in networks. [2]

3. (a) Define the meaning of a Wide Area Network (WAN). [1]

(b) Give an example of a WAN. [1]

4. A DNS (Domain Name System) translates domain names such as www.bbc.co.uk into numerical IP addresses, such as 212.58.241.67.

(a) List **two** advantages of the Domain Name System [2]

(b) A user types the web address www.bbc.co.uk into a web browser.

Describe how a DNS server is used to access this website. [4]

[Total 20 marks]